TYAN®

General Computing Platform
1U 2-way SMP System

GT24-B2912-E

B2912G24V4H-E / B2912G24W4H-E

Front View

Rear View

General purpose 1U 2-way AMD Opteron™ platform

- Dual LGA 1207-pin sockets support up to (2) AMD 45nm Quad-Core Opteron™ 2300 series processors
- Support AMD Dual Dynamic Power Management (DDPM) feature
- nVIDIA nForce® Professional 3600 (NFP 3600)
- (8) 240-pin DDR2 DIMM slots support up to 64GB registered DDR2 800/667/533/400 w/ ECC memory
- (1) Full-Height/ Full-Length PCI-E x16 slot (via M2083-RS)
- (1) Full-Height/ Half Length PCI-E x8 slot (via M2081-2)
- (4) hot-swap 3.5" SAS HDD bays w/ RAID 0, 1, 1E support (B2912G24W4H-E)
- (4) hot-swap 3.5" SATA-II HDD bays w/ RAID 0, 1, 0+1, 5 support
- (2) GbE LAN
- (1) EPS1U 500W PSU w/ PFC
- Optional TYAN® M3295-2 SMDC for IPMI v2.0 support

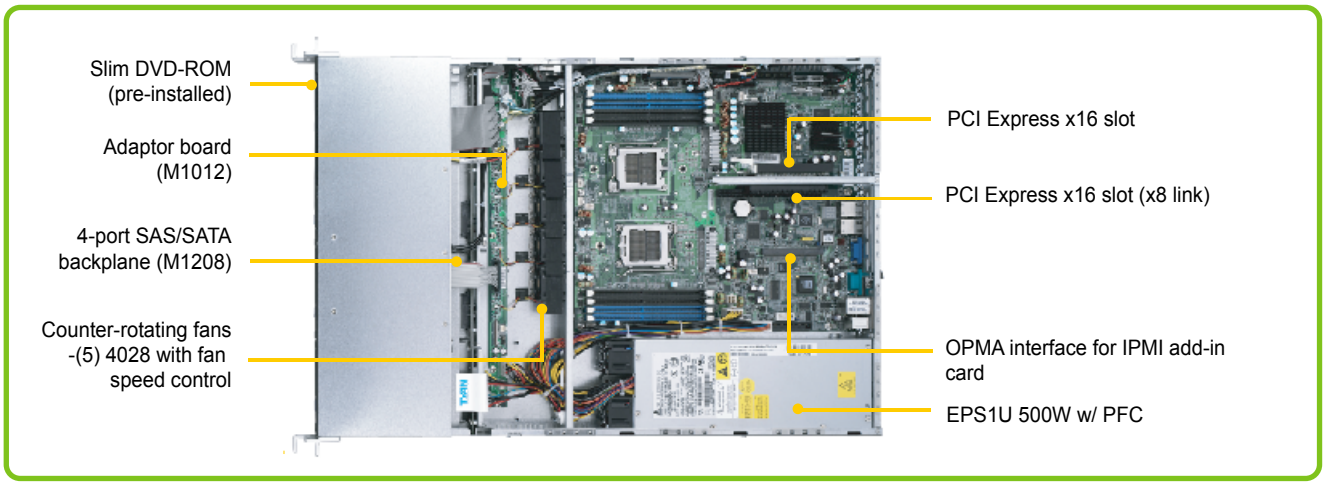
Model #	No. of HDD supported	Backplane	Power Supply
B2912G24V4H-E	(4) Hot-swap SATA-II	4-port SAS/ SATA	500W PSU
B2912G24W4H-E	(4) Hot-swap SAS	4-port SAS/ SATA	500W PSU

(Specifications are subject to change without notice. Items pictured may only be representative.)

GT24-B2912-E

B2912G24V4H-E / B2912G24W4H-E

▼ TOP View


Slim DVD-ROM (pre-installed)
Adaptor board (M1012)
4-port SAS/SATA backplane (M1208)
Counter-rotating fans -(5) 4028 with fan speed control
PCI Express x16 slot
PCI Express x16 slot (x8 link)
OPMA interface for IPMI add-in card
EPS1U 500W w/ PFC

S P E C I F I C A T I O N S

Enclosure
- TYAN® GT24 industry standard 19" rack-mountable 1U chassis
  - (1) slim DVD-ROM bay
  - (4) 3.5" hot-swap HDD bays
- Dimension
  - H1.72" x W17.2" x D25.4"
  - H43.6mm x W436mm x D645mm

Processors
- Dual LGA 1207 sockets
- Support up to (2) 45nm Quad-Core AMD Opteron™ 2300 series processors
- Support 4.4GT/s HyperTransport™ inter-processor link
- Support AMD Dual Dynamic Power Management (DDPM) feature

Chipset
- nVIDIA nForce® Professional 3600 (NFP 3600)
- Winbond 83627HG Super I/O chip
- Analog Devices ADT7476 Hardware Monitoring IC

Memory
- Dual-channel memory bus
- (8) 240-pin DDR2 DIMM slots
- Support up to 64GB registered DDR2 800/667/533/400 w/ ECC memory

Expansion Slots
- (1) FH/FL PCI-E x16 slot (via M2083-RS)
- (1) FH/HL PCI-E x8 slot (via M2081-2)
- Total (2) expansion slots

Integrated 2D / 3D PCI Graphics
- ATI ES1000 graphic controller
- PCI interface

Server Management
- Optional TYAN® M3295-2 SMDC
- IPMI v2.0 compliant

BIOS
- Phoenix BIOS on 8Mbit LPC Flash ROM
- Support ACPI (S0, S1, S3, S4, S5)
- Serial Console Redirect
- User configurable H/W monitoring
- PXE via Ethernet, USB device boot
- PnP, DMI 2.0, WfM 2.0 Power Management
- Multiple boot options
- 48-bit LBA support

Integrated LAN Controller
- Marvell 88E1121 GbE PHY
- Total (2) RJ-45 LAN ports

Motherboard
- B2912G24V4H-E
  - TYAN® S2912G2NR-E
- B2912G24W4H-E
  - TYAN® S2912WG2NR-E

Power Supply
- EPS1U 500W PSU w/ PFC
- 100V~240V full-range AC input

Rear Panel I/O Ports
- (1) stacked PS/2 connectors for mouse and keyboard
- (1) stacked 2-port USB 2.0 and 1-port RJ-45 connectors (dedicated for IPMI)
- (1) DB-9 serial port
- (1) D-sub VGA port
- (2) side-by-side RJ-45 connectors

Front Panel Features
- I/O
  - (2) USB 2.0 ports
- LED indicators
  - Power LED
  - (2) LAN LEDs
  - HDD Active LEDs
  - ID LED
  - Warning LED
- Switches
  - Power
  - Reset
  - ID
  - NMI

Storage
- B2912G24V4H-E
  - Integrated SATA-II controller in NFP 3600
  - (4) hot-swap 3.5" SATA-II HDDs w/ RAID 0, 1, 0+1, 5 support
- B2912G24W4H-E
  - Integrated LSI SAS1064E 4-port SAS controller
  - (4) hot-swap 3.5" SAS HDDs w/ RAID 0, 1, 1E support
- Pre-installed slim type DVD-ROM for both SKUs

System Cooling
- (5) 40mm x 40mm x 28mm 15,000rpm heavy-duty fans with fan speed monitor and control
- (2) Passive CPU Heatsink

Environment Temperature
- Operating temperature 5°C~35°C
- Non-operating temperature -40°C~70°C

Regulatory
- FCC Class B (Declaration of Conformity)
- CE (Declaration of Conformity)

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